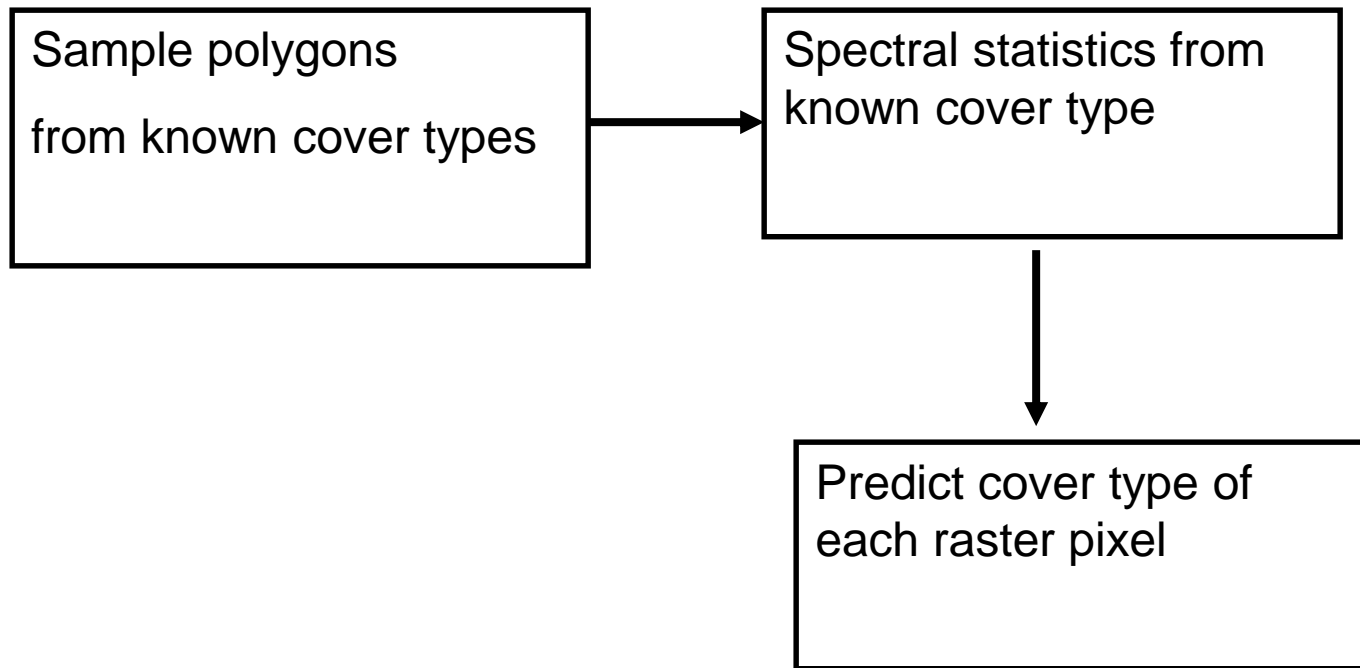
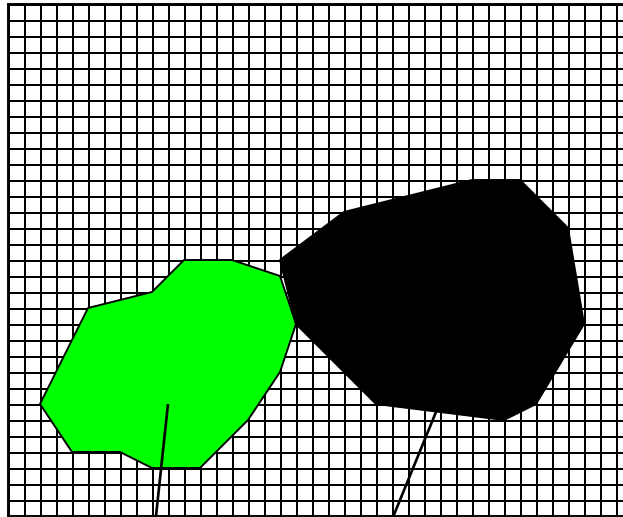


# Supervised Classification

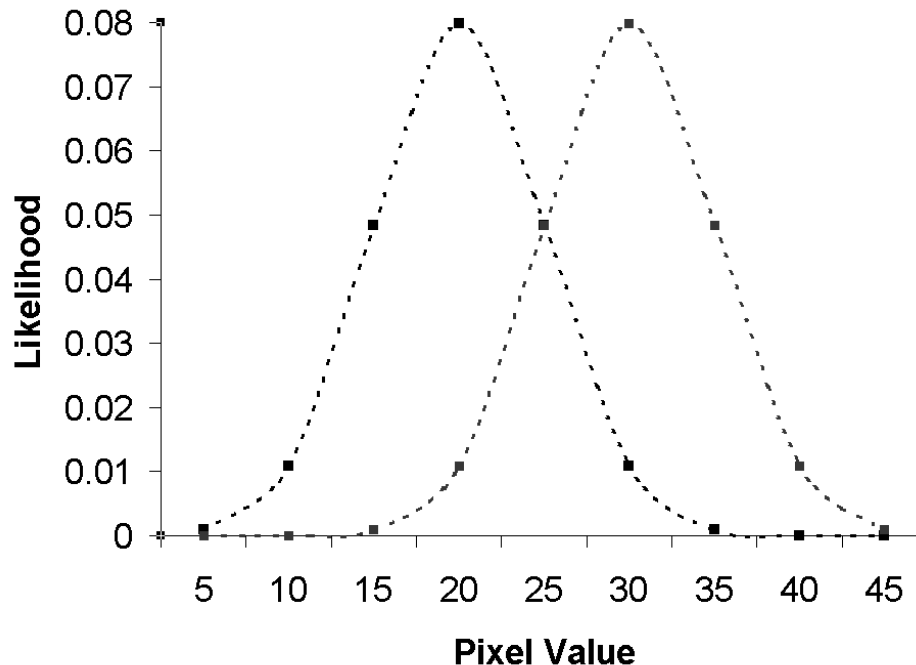




<b>Training Polygons</b>	<b>Mean</b>	<b>Standard Deviation</b>
<b>Unburned</b>	<b>20</b>	<b>5</b>
<b>Burned</b>	<b>30</b>	<b>5</b>

# Maximum Likelihood Classifier

- Assumes bell-shaped likelihood, peaking at means



10	11	12	17	18	27	33	31	32
10	12	13	15	19	21	32	30	30
11	12	13	14	19	20	31	28	31
12	13	14	17	19	27	29	29	32
14	16	16	18	20	27	28	31	30



Classifier

0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	1	1	1
0	0	0	0	0	0	1	1	1
0	0	0	0	0	1	1	1	1
0	0	0	0	0	1	1	1	1



0= predicted  
unburned  
  
1=predicted  
burned

10	11	12	17	18	27	33	31	32
10	12	13	15	19	21	32	30	30
11	12	13	14	19	20	31	28	31
12	13	14	17	19	27	29	29	32
14	16	16	18	20	27	28	31	30



Classifier

0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	1	1	1
0	0	0	0	0	0	1	1	1
0	0	0	0	0	1	1	1	1
0	0	0	0	0	1	1	1	1

 unburned
 burned